

23284

S/075/61/016/005/005/010

B101/B110

Quantitative determination of some

1222 cm^{-1}) and POCl_3 (bands at 1226 and 1264 cm^{-1}). The sensitivity is $1 \cdot 10^{-4}\%$. CS_2 was determined from the intense 1520 cm^{-1} band; $K = 780 \text{ cm}^{-1}$; sensitivity is $7 \cdot 10^{-6}\%$. POCl_3 was determined from the 1226 cm^{-1} band ($K = 80 \text{ cm}^{-1}$; sensitivity $1.6 \cdot 10^{-4}\%$) and the 1264 cm^{-1} band ($K = 139 \text{ cm}^{-1}$; sensitivity $1 \cdot 10^{-4}\%$). SOCl_2 and SiCl_4 may be present in small amounts only. SiCl_4 was determined from the weak 1222 cm^{-1} band ($K = 0.807 \text{ cm}^{-1}$) to avoid the use of the KBr prism required for the 607 cm^{-1} band. Sensitivity was $2 \cdot 10^{-2}\%$. As the content of TiOCl_2 , SOCl_2 , and POCl_3 in commercial TiCl_4 does not exceed 0.2, 0.01, and 0.005%, respectively, these compounds do not interfere with the determination of SiCl_4 . Linear calibration curves were plotted for all four compounds by means of standard solutions. The measurements were made with an MKC-12 (IKS-12) spectrometer with NaCl prism. The relative errors were 3 - 7%. There are 5 figures, 1 table, and 8 references: 6 Soviet and 2 non-Soviet. The

Card 2/3

quantitative determination of some ...

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B101/B110

reference to the English-language publication reads as follows: J. C., Tyree, S. Y., JACS 81, 2290 (1959).

ASSOCIATION: Vsesoyuznyy alyuminiyevo-magniyevyy institut, Leningrad
(All-Union Institute of Aluminum and Magnesium, Leningrad)

SUBMITTED: April 18, 1960

X

Card 3/3

TSEKHOVOL'SKAYA, D.I.

Intermolecular reaction between COCl_2 and TiCl_4 . Zhur. neorg.
khim. 9 no.6:1387-1392 Je '63 (MIRA 17:8)

1. Vsesoyuznyy alyuminiyevo-magniyevyy institut.

TSEKHOVOL'SKAYA, D.I.; ZAVARITSKAYA, T.A.; Prinimale uchastiye: VOL'FRAM, I.,
diplomantka

Determination of some impurities in silicon tetrachloride by the method
of infrared spectroscopy. Trudy Kom.anal.khim. 13:399-404 '63.
(MIR 16:5)

1. Leningradskiy gosudarstvennyy universitete (for Vol'fram).
(Silicon chlorides--Absorption spectra)

TSEKHOVL'SKAYA, D.I.; MERENKOVA, B.M.

Spectrophotometric determination of vanadium in titanium tetra-
chloride. Zav. lab. 31 no.8:946 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy alyuminiyevo-
magniyevyy institut.

18.3100

82616

S/180/60/000/004/006/027

E111/E452

AUTHORS: Delarova, N.I., Zavaritskaya, T.A., Zevakin, I.A. and
~~Tsekhovol'skaya, Z.I.~~ (Leningrad)

TITLE: Impurities in Technical Titanium Tetrachloride and
Their Removal

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1960, No.4, pp.33-38

TEXT: The authors point out the influence of titanium-tetrachloride purity on that of titanium obtained from it. For investigating the nature of impurities in titanium tetrachloride the authors used infrared absorption spectra. The impurities in tetra-chloride obtained by chlorination of slags in stack electric furnaces, in melts and in a fluidized bed are shown in Table 1. The solubilities of the main impurities in titanium tetrachloride were determined, values in weight percent at 0 to 136°C being shown in Table 2 for HCl, CO₂, Cl₂ and COCl₂; solubilities of TiOCl₂ and C₆Cl₆ are shown as functions of temperature (-20 to +136°C) in Fig.1a and 1b respectively. The authors also checked the vapour-liquid equilibrium compositions for the system TiCl₄ - SiCl₄ (Fig.2a) and investigated equilibria in TiCl₄ - VOCl₃ 44
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82616
S/180/60/000/004/006/027
E111/E452

Impurities in Technical Titanium Tetrachloride and Their Removal

mixtures (Fig.2b) and TiCl_4 - CCl_3COCl mixtures (Fig.4). These results are shown in the form of composition of vapour phase as functions of that of the liquid phase, the relative volatility as a function of the concentration of volatile component in the liquid is shown in Fig.3a for TiCl_4 - SiCl_4 , Fig.3b for TiCl_4 - VOCl_3 and Fig.5 for TiCl_4 - CCl_3COCl . The relative volatilities in TiCl_4 - VOCl_3 and TiCl_4 - CCl_3COCl are small and rectification columns with many plates would be required for their separation. Determinations were made of the partial vapour pressures of TiOCl_2 and C_6Cl_6 over their mixtures with TiCl_4 at 136 to 137°C by analyzing the condensed vapour phase in equilibrium with solution boiling at atmospheric pressure; the low values obtained (Tables 3 and 4 respectively) suggest that contamination by these substances is due largely to carry-over of droplets. There are 5 figures, 4 tables and 7 references; 5 Soviet, 1 English and 1 Japanese.

SUBMITTED: April 30, 1960

Card 2/2

S/080/60/033/009/016/021
A003/A001

AUTHORS: Zavaritskaya, T.A., Tsekhover'skaya, D.I.

TITLE: On the Determination of Titanium Oxychloride in Titanium Tetra-
chloride ✓

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 9, pp. 2139-2140

TEXT: For using titanium tetrachloride for metallurgical purposes its degree of pollution by oxychloride, $TiOCl_2$, must be known. The method of infrared absorption spectra shows the best results. G.S. Denisov found three absorption bands for solutions of titanium oxychloride in tetrachloride: 821, 1,184 and 1,356 cm^{-1} . The first band is very suitable for determining small quantities of oxychloride, because it is 100 times more intensive than the others. The work was carried out on a VKC-12 (IKS-12) device with a NaCl prism. Results of investigations in the 1,356 cm^{-1} band are cited. The method mentioned is at present the only way of determining pollutions by oxychloride quickly. There is 1 figure, 1 table and 3 references: 2 Soviet, 1 American. ✓

ASSOCIATION: Vsesoyuznyy alyuminiyevo-magniyevyy institut (All-Union Aluminum-Magnesium Institute)

SUBMITTED: February 18, 1960

Card 1/1

TSEKHOVOL'SKIY, V.

One per cent saving equals 2,600.000.000 kilowatt-hours. Znan.
sila 35 no.5:40-41 My '60. (MIRA 13:7)
(Electric power)

TSEKHOVOL'SKIY, F

S/004/60/000/01/03/004

AUTHOR: Tsekhovol'skiy, F.

TITLE: "Paper" Fuel Tanks

PERIODICAL: Znaniye-Sila, 1960, No 1, p 34

TEXT: The author describes the composition, merits and manifold applicability of a new paper product called laminated plastics. The production process is as follows: long strips of thin impregnated paper are pulled through a solution containing phenol-formaldehyde resins. The strips are then cut into sheets and piled on each other. Several layers of the impregnated paper are covered with a patterned or plain colored paper and the whole finished with a thin, transparent bakelite coating. The hot parcel is pressed in a steel press at 40°C and a pressure of 50-60 atm. These laminated plastics are waterproof acid-resistant and stable to light. It is a perfect cover for ships, furniture, walls and even roofs. It can also be used for radio and television boxes, pianos and lately also for fuel tanks, particularly on aircraft. Recent tests on a jet aircraft showed clearly the numerous advantages of these new "paper" fuel tanks.

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PHASE I BOOK EXPLOITATION

SOV/3914

SOV/53-M-24

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki

Prikladnaya geofizika; sbornik statey, vyp. 24 (Applied Geophysics; Collection of Articles, No. 24) Leningrad, Gostoptekhizdat, 1960. 260 p. 3,500 copies printed.

Sponsoring Agency: USSR. Ministerstvo geologii i okhrany neдр.

Scientific Ed.: M.K. Polshkov; Executive Ed.: A.A. Chizhov; Tech. Ed.: I.M. Gennad'yeva

PURPOSE: This book is intended for members of scientific research organizations, engineers and technical personnel engaged in geophysical surveying and research in industrial organizations.

COVERAGE: This is a collection of 11 articles by different authors on new methods of interpreting data and evaluating techniques in seismic, electrical, and gravimagnetic methods of surveying wells. The theory of seismic instrumentation and methods of outlining flat platform structures through seismic surveys are discussed,

Card 1/4

Applied Geophysics (Cont.)

SC7/3914

and theoretical problems of a new electrical survey method developed by the VNIIGeofizika (All-Union Scientific Research Institute of Geophysical Methods of Surveying) are analyzed. Recent developments in the interpretation of gravimetric and gravimagnetic methods and a new method for separating coal beds by gamma logging are also described. No personalities are mentioned. Most of the articles are accompanied by references, a majority of which are Soviet.

TABLE OF CONTENTS:

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Krolenko, N.G., and G.D. Tsekov. Theoretical Curves in Electrical Sounding Over an Inclined Contact of Two Media (Inclined Contact Template)	54
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Applied Geophysics (Cont.)

80V/3914

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Card 3/4

ZAYARITSKAYA, T.A.; TSEKHOVOL'SKAYA, D.I.

Determination of titanium oxychloride in titanium tetrachloride.
Zhur. prikl. khim. 33 no.9:2139-2140 S '60. (MIRA 13:10)

1. Vsesoyuznyy alyuminiyevo-magniyevyy institut.
(Titanium chloride)

TSEKHOVOL'SKAYA, D.I.; ZAVARITSKAYA, T.A.

Quantitative determination of some impurities in titanium tetrachloride
by infrared spectroscopy. Zhur.anal.khim. 16 no.5:623-626
S-0 '61.

(MIRA 14:9)

1. All-Union Aluminium-Magnesium Institute, Leningrad.
(Titanium chloride) (Spectrum, Infrared)

AUTHORS:

Tsekhovol'skaya, D. I., Zavaritskaya, T. A., Denisov, G. S.,
Chulanovskiy, V. M. SOV/32-25-3-16/62

TITLE:

The Use of Infra-red Spectroscopy for Analysis, Titanium Tetra-
chloride (Primeneniye infrakrasnoy spektroskopii k analizu
chettyrekhhloristogo titana)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 300-302 (USSR)

ABSTRACT:

A lecture on this investigation was given at the XII Vsesoyuznoye
soveshchaniye po spektroskopii (Twelfth All Union Conference of
Spectroscopy) in Moscow in November 1958. The properties of
titanium depend considerably on the minimum amount of impurities.
It is not possible to determine all admixtures of $TiCl_4$ by the
chemical and physico-chemical analyses being used at present. In
the present investigation the composition of various admixtures
of $TiCl_4$ was investigated and methods of their quantitative de-
termination by means of infra-red absorption spectra have been
worked out. The spectrometers IKS-6, IKS-12, and Perkin Elmer
12-V were used in the investigations. Various technical samples
of $TiCl_4$ showed a considerable amount of spectral bands which

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The Use of Infra-red Spectroscopy for Analysing Titanium Tetrachloride

SOV/32-25-3-16/62

came from various admixtures, as e.g., VOCl_3 , SiCl_4 , TiOCl_2 , C_6Cl_6 , CH_2SiCOCl , CHCl_2 , COCl , CCl_3COCl , HCl , CCl_2 , CO_2 . It was found that the hydrolysis of TiCl_4 proceeds with formation of oxychlorides of the type Ti-O-Ti and Ti=O and not of hydroxychlorides. The determinations of VOCl_3 and CCl_2 are given. CO_2 was determined from the maximum at $\nu = 2338\text{cm}^{-1}$, whereas chlorine-substituted acetylchlorides were determined from the oscillations of the C=O group. The solubility of CO_2 , HCl , COCl_2 , and C_6Cl_6 in TiCl_4 could be determined by means of the investigation results which also showed that, with a TiCl_4 excess, the hydrolysis proceeds according to the scheme $\text{TiCl}_4 + \text{H}_2\text{O} \longrightarrow \text{TiOCl}_2 + 2 \text{HCl}$. There are 1 table and 5 references, 1 of which is Soviet.

ASSOCIATION:

Card 2/2

Vsesoyuznyy alyuminiyevo-magniyevyy institut (All-Union Aluminum-Magnesium Institute)

TSEKHOVOL'SKIY, F.

"The V-9 ekvodin." IUn.tekh. 3 no.3:47-48 Mr '59.

(Musical instruments, Electronic) (MIRA 12:4)

ZAVARITSKAYA, T.A.; Primeneniye obshchiy: ESSENKOVA, N.; TSEKHOVSKAYA, D.;
ZEVAKIN, I.; MISHENEVA, Ye.; ROGATKIN, A.

Investigations in the field of titanium tetrachloride purification.
Titan i ego splavy no. 54195-200 '61. (MIRA 15:2)

(Titanium chloride)

(Distillation)

(Vapor-liquid equilibrium)

TSEKIN, M.A., kand.tekhn.nauk, dotsent

Some studies of a shock excited transistor oscillator. Sbor.
trud. LIIZHT no.179:188-196 '61. (MIRA 16:11)

TSEKIN, M.A., kand.tekhn.nauk

Investigation of a shock-excited oscillator with autotransformer
feedback. Sbor. LIIZHT no.169:104-122 '60. (MIRA 13:11)
(Oscillators, Electric)

PHASE I BOOK EXPLOITATION 30V/3326

Leningrad. Institut Instrumentov zheleznoputnogo transporta
Armaty, telemechanika i svyaz' (Automation, Telemechanics,
and Communications). Moscow, Izdatel'stvo, 1960. 230 p.
(Series: Izv. Sbornik, Vyp. 169) 1,000 copies printed.

General Ed.: V. N. Litov, Professor; Ed.: O. I. Kabanov,
Engineer; Tech. Ed.: Ye. N. Dobrya.

FOREWORD: This book is intended for technical personnel and
scientists engaged in the fields of automation, telemechanics,
and communications.

CONTENTS: This collection of articles presents various methods
of analysis and synthesis of electric circuits. New designs
are described and ways of improving technical and economic
indicators of communication instruments are indicated. The
articles contain computations for individual types of commu-
nication instruments. The book is intended for use as a
manual. Some of the articles are accompanied by references.

Malachuk, V. A., Engineer. Computation of Selection Appli- 67
Type NC using Functions of the Space Operator

The author develops a method for defining the fractional
time constant of a system by studying the behavior of an
amplifier circuit, provided that in the given band of
frequency change the difference between function value
and given value is minimum. There are 3 references, all
Soviet.

Novik, I. A., Candidate of Technical Sciences, Docent, Synthesis
of Linear Systems of Automatic Regulation Based on Time 76
Characteristics

The author develops the method proposed by him (ref. 6)
for determining the optimum parameters of complex linear
systems of regulation. This synthesis method is based on
time characteristics and integral equations in conjunc-
tion with decomposition of parameter planes. The author
concludes that his method is relatively rapid, based as it
is on simple mathematical operations, and, since its com-
putations can be presented in the form of algorithms, he
advocates its application when using computers. There are
6 references, all Soviet.

Shchegolev, V. P., Candidate of Technical Sciences, Docent,
Synthesis of Automatic Regulation Systems for Permanent Cyclic 93
Disturbances Using the Method of Vector Potentials

The author gives an approximate analytical computation of
decomposition factors for complex linear systems and
concludes that, with a certain error, his method is
valid for systems having a large number of poles and zeros.
There are 2 references, both Soviet.

Shchegolev, V. P., Candidate of Technical Sciences, Engineer,
Synthesis of a Shock-Excited Oscillator with Auto-Feedback 104

In this article, a shock-excited oscillator with auto-
transformer feedback is discussed. Its circuit, opera-
tional principle, the mathematical analysis of its
circuit, and methods for its computation are given. The
author describes experiments with such a system to the con-
clusion that, by means of increasing the value of the con-
stant of the oscillator, it is possible to obtain oscillations
that are stable in time. The author also describes a system
that the establishment of oscillations in this system
depend on pulse duration and starting pulse repetition
frequency. There are 7 references, all Soviet.

Card 5/11

GORBENKO, F.P.; SHEVCHUK, I.A.; TSELINSKIY, Yu.K.; SACHKO, V.V.

Extraction of microquantities of calcium in the presence of
alkyl amines. Zhur. anal. khim. 18 no.11:1397-1398 N '63.

(MIRA 17:1)

1. Donetskii filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta khimicheskikh reaktivov i osobo chistykh veshchestv.

TSEKOV, A.

AGRICULTURE

Periodical Kooperativno Zemezelie. No. 10, Oct. 1958

TSEKOV, A.: LIDZHI, M.: The place of stockbreeding in a fuller and proportional use of the workers and the increase of the income of the cooperators. p. 7.

Monthly List of East European Accessions (EEAI) LC / Vol. 8, No. 3, March 1959. Uncl.

MILINOV, P.; TSEKOV, B.

Diencephalitis syndrome in an influenza epidemic in March 1959.
Suvrem med., Sofia no.2:37-42 '61.

1. Okružna bolnitsa, Varna. (Gl. lekar Chakalov.)

(INFLUENZA compl)
(DIENCEPHALON dis)

RADANOV, S.; TSEKOV, G.

Sudden death according to data of the Department of Forensic
Medicine of the Higher Medical Institute in Sofia in 1924-1962.
Suvr. med. (Sofia) 16 no.9:531-537 '65.

1. Katedra po sudebna meditsina (rukovoditel prof. M.A. Markov),
Vissh meditsinski institut, Sofia.

L 29779-66

ACC NR: AP6020856

SOURCE CODE: BU/0016/65/000/009/0531/0537

19
E

AUTHOR: Radanov, S.; Tsekov, G.

ORG: Department of Forensic Medicine /headed by Professor M. A. Markov/, Sofia
(Katodra po sudebna meditsina pri VMI)

TITLE: Cases of sudden death as recorded in Department of Forensic Medicine of Sofia
Medical College 1924-1962

SOURCE: Suvremenna meditsina, no. 9, 1965, 531-537

TOPIC TAGS: pathology, cardiovascular system, respiratory system, circulatory
system disease, respiratory system disease

ABSTRACT: Analysis of 1914 necropsies of sudden death cases from among 11,429 necrop-
sies done 1924-1962: 972 are tabulated according to sex and 18 different cardiovas-
cular causes of death (age peaks around 50 for men, 70 for women, while children peak
in respiratory causes of death). [Based on authors' Eng. abst.] [JPRS]

SUB CODE: 06 / SUBM DATE: 00Dec64 / ORIG REF: 007 / OTH REF: 003
SOV REF: 008

Card 1/1

TSEKOV, Khr. (Sofia)

A method of determining the specific heat of liquids. Mat i
fiz Bulg 8 no.1:60 Ja-F '65.

MARKOV, M.; TSEKOV, G.

On the age limits of spermatogenesis. Nauch tr. vissh. med.
inst. Sofia 42 no.1:1-9 '63.

1. Predstavena ot prof, d-r M. Markov.
(SPERMATOZOA) (AGING)

TSEKOV, G.

A possibility of late determination of alcohol in cadavers.
Suvr. med. (Sofia) 15 no.11:33-34 '64.

TSEKOV, G.

The procedure and tasks of the physician at the scene of an accident. Suvr. med. 14 no.9:15-22 '63.

(CORONERS AND MEDICAL EXAMINERS)

KABAKCHIEV, St.; TSEKOV, G.

Unusual case of cardiac wound. Khirurgia, Sofia 12 no.12:1109-1111 '59.

1. Iz IBMP "N.I. Pirogov" i Katedrata po sudabna meditsina pri VMI - Sofia.

(HEART wds.& inj.)

TSEKOV, G.D.

Technique of calculating "VEZ" curves for the potential difference by using the "VEZ" curves for gradient plotting. Study
Akad. neft. prom. no.2:142-149 '55. (MIRA 8:5)
(Oil well logging, Electric)

751-KOV, G.D.
VEDRINTSEV, G.A.; TSEKOV, G.D.

Obtaining multi-layer theoretical curves of vertical electrical
prospecting by means of analysis and combination with graphic
methods. Razved i prom. geofiz. no.20:36-46 '57. (MIRA 11:4)
(Prospecting--Geophysical methods)

TSEKOV, G. D.

Tsekoy, G. D. "Interpretation of curve sounding by "point of breaking away", " Prikl. geofizika, Issue 5, 1948, p. 73-78

SO: U-3264, 10 April 1953, (Letonia 'Zhurnal 'nykh Statoy, No. 3, 1949)

TSELOV, G. D.

"A Method of Calculating the Multilayer Curves of Vertical Electrical Soundings When the Basement Medium Consists of Rocks of Very High or Very Low Resistance." Cand Tech Sci, Sci-Res Inst of Geophysical Methods of Exploration, 7 Jan 55. (VM, 28 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

TSEKOV, Gerasim Dmitriyevich; TEREKHIN, Ye.I., red.; FILIPPOVA, Ye.A.,
vodushchiy red.; MUKHINA, E.A., tekhn.red.

[Methods of calculating multilayer curves in electrical prospecting]
Metodika rascheta mnogosloynnykh krivyykh elektricheskogo zondirovaniia.
Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry,
1957. 81 p. (MIRA 11:5)
(Logging (Geology))

TSEKOV, Khr.

How to make gasoline pumps. Mat 1 fiz Bulg 6 no.3:62-63 My-Je
'63.

DIULIUNZHIEV, Damian R., inzh.; TONCHEV, Loziu, inzh.; BURNEV, Dimitur Iv.,
tshkh.; TSEKOV, Kiril Kh., tekhn.

Some critical notes on the Bulgarian State Standard 626-62 concerning
the clay brick holes. Ratsionalizatsiia no.8:28-31 '62.

BULGARIA / Chemical Technology, Chemical Products and Their Applications, Ceramics. H

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12527.

Author : Todorov, Iv.; Tsekov, K.; Burnev, Dim.

Inst : Not given.

Title : Improvement in Quality and Decrease in Cost of Products of Building Ceramics.

Orig Pub: Leka promishlenost, 1958, 7, No 2, 23-26.

Abstract: Conditions of brick production in Bulgaria are analyzed, a series of drawbacks are noted, and some measures are indicated directed to the improvement of quality and decrease in cost of production; use of sheds for drying, construction of kilns with permanent walls, etc. -- Ya. Satunovskiy.

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TSEKOV, M.
BULGARIA

Major (Major) N. GANCHEV, Maj L. TSONEV, Maj L. KHRISTOV and Maj M. TSEKOV, MC (Meditsinska sluzhba.)

"The Carrier State Situation at a Specific Time Period of a Dysentery Epidemic."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 2, 1963; pp 42-48.

Abstract: Screening for carriers among soldiers bivouacked in a village where a dysentery epidemic was present in July 1962 brought about the detection of 20 carriers. Detailed data are given indicating that virtually all of these carriers had subclinical degrees of dysentery as revealed by minor pathologic symptoms or proctoscopic changes. Need for periodical screening in general and for thorough treatment of the carriers is stressed. Five tables; 2 Bulgarian, 1 Polish, 1 Hungarian, 16 Soviet references.

1/1

BOIANOV, P.; TSEKOV, M.

A case of hepatic syndrome caused by an acute allergic disease.
Suvr. med. 13 no.12:43-44 '62.

(LIVER DISEASES) (URTICARIA)

TSEKOV, Ts. N.

Periodization of the geotectonic development of Balkanid
system. Godishnik biol 52 no.2:113-130 '57/'58 [publ. '59].

TSEKOV, TS.N.

Contemporary submarine volcanic eruptions. Prir i znanie 17
no.4:23-24 Ap '64.

TSEKOV, V., kand. tekhn. nauk; SHILIN, E., inzh.

Streetcar parts made of nylon. Zhil.-kom. khoz. 11 no.11:24
N '61. (MIRA 16:7)

(Kharkov—Streetcars—Equipment and supplies)
(Nylon)

27044

S/182/61/000/004/006/007
D038/D112

15 8510
15 8080

AUTHORS:

Dreval', N.V. and Tsekov, V.I.

TITLE:

Resistance to wear in caprone gaskets of hydraulic presses

PERIODICAL:

Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1961, 44-45

TEXT: In order to establish the effect of additions of barium sulfate on the wear-resistance of caprone, experimental gaskets for the RP XX hydraulic pumps of Polak hydraulic presses of the ЛПon2255 (L Pol 2255) type were made both from the pure caprone resin "polikaprolakam" [Abstracter's note: Russian transliteration, possibly an error for "polikaprolaktam" (polycaprolactam)], and polycaprolactam with barium-sulfate contents of 5-35%. The samples were annealed for 1 hour in boiling water to relieve residual stresses. Laboratory tests, carried out at a sliding speed of 0.1-2 m/sec, specific pressure on the friction surfaces of 110-120 kg/cm², and a temperature of not more than 90°C, showed that the highest wear-resistance was achieved by an addition of 20-25% of barium sulfate. It was found that tanned leather wears out 3 times faster than pure caprone and five times faster than caprone with 20-25% of barium sulfate. Tests of both types of caprone gaskets in the RP XX pumps confirmed the results of the laboratory experiments. It is stated that the service life of the caprone gaskets with barium sulfate reaches two months as compared with 10-12 days for

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APPROVED FOR RELEASE

Resistance to wear

27044

S/182/61/000/004/006/007

D038/D112

leather gaskets, while the caprone gaskets are considerably cheaper. There are
4 figures.

Card 2/3

BRATANOV, K.; YOSIFOV, K. [Iosifov, K.]; MATLIEVA, M.; TSEKOVA, E.

On the nucleic acid content in spermatozoa of certain farm animals.
Doklady BAN 17 no.11:1047-1049 '64.

1. Institute of the Biology and Pathology of Reproduction and Non-infectious Diseases. Submitted June 12, 1964.

TSEKOVA, S.

"Our tasks during 1958."

p.1 (Leka Promishlenost, Vol. 7, no. 1, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

Tsekova, S.

TECHNOLOGY

Vol. 7, no. 5, 1998

Tsekova, S. The Seventh Congress of the Bulgarian Communist Party and the development of light industry. p. 1.

Monthly Index of East European Accessions (MIEA) 10, Vol. 8, No. 1.
Jan. 1999

TSEKOV, S. D. and KALENOV, YE. N.

"Section III, Electrical Prospecting", -- Chapters XI, XIII, and XIV, by Ye. N. Kalenov, and Chapter XII, by S. D. Tsekov appearing in the book "Table of Contents for 'A General Course in Geophysical Prospecting'", Obshchiy Kurs Razvedochnoy Geofiziki (dlya Tekhnikumov), Gostoptekhizdat, 408 pp.

MALEEV, A. Kh.; KHINKOV, P. Kh.; TSEKOV, T.I.

Peculiarities in the course of typhoid fever in immunized patients.
Sovrem. med., Sofia 9 no.6:11-21 1958.

1. Iz Obshchoarmeiskate bolitsa v Sofia (Nachalnik: M. Kutov)
(TYPHOID FEVER, manifest.
atypical responses in immunized patients (Bul))

TSEKOV, TS. N.

Forecast of earthquakes. Prir i znanie 17 no. 1: 16-17
Ja '64.

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Rabchenko, S.G. [Chief Engineer of the Khar'kovskiy velosipedyi zavod--Khar'kov Bicycle Plant]. Mechanization and Automation in Bicycle Manufacturing	207
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DREVAL', H.V., kand.tekhn.nauk; TSEKOV. V.I., kand.tekhn.nauk

The effect of graphite addition on the wear
resistance of iron bushings. Izv. vys. ucheb. zav.;
razrabotki. no.8:119-121 '61. (IRA 14:7)

1. Khar'kovskiy institut inzhenerov kommunal'nogo stritel'stva.
(Nylon Testing)

TSEKOV, V.I., kand.tekhn.nauk

Investigating the strength of capron used in friction pairs. Vest.
mash. 40 no.5:35-36 My '60. (MIRA 14:4)
(Nylon—Testing)

TSEKOV, V.I.; SHILIN, E.G.

Use of capron in the repair of streetcar mechanical equipment.
Plast.massy no.6:60-62 '61. (MIRA 14:5)
(Nylon) (Streetcars)

TSEK V, V. I.

Tsekov, V. I. "Investigation of the effect of case-hardening and surface cleanness on the wear resistance of the cutting parts of earth-digging and soil-cultivation machinery." Min Higher Education Ukrainian SSR. Khar'kov Inst of Mechanization of Agriculture. Khar'kov, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

25673 S/122/60/000/005/007/017
A161/A130

158366

AUTHOR:

Tsekov, V. I., Candidate of Technical Sciences

TITLE:

Investigation of capron wear in friction service

PERIODICAL:

Vestnik mashinostroyeniya, no. 5, 1960, 35-36

TEXT:

Capron has been tested in tram-car axial compressor bearing bushings and in laboratory specimens on a laboratory MM (MI) test machine with a steel cylinder imitating shaft. Industrial "20" oil was used for lubrication. Wear of the steel and capron specimens was examined by weighing on analytic scales with accuracy to 0.0002 g. Highest wear resistance had capron specimens with 5% graphite for filler. This graphite content is the point of optimum effect. Graphite content either below or above 5% gives lower wear resistance. Capron bearing linings on the tram-car were compared with bronze linings, and same graphite content, 5%, was stated to be the proper. The bronze linings withstood only 1 - 1.5 month service and were worn 4-5 mm, but capron linings needed no replacement after 5 months, and their wear did not exceed 0.2 - 0.3 mm after 2 months. Lowest wear had the capron lining with 5% graphite - 0.03-0.15 mm. Steel surface in contact with capron was practically not worn. It was stated

Card 1/2

25673

S/122/60/000/003/007/01?
A161/A130

Investigation of capron wear in friction service

that abrasive particles getting on the friction surface were instantaneously imbedded and enveloped in capron. It is evident that bronze can be replaced with capron in friction couples. Capron with 5% graphite needs no oil-rich lubricant. It is stressed that temperature on contact surfaces must not exceed 50°C if lubrication is used. There are 3 figures.

Card 2/2

TSEKOV, V., kand.tekhn.nauk; SHILIN, E.

Insulation components of AST-T plastic. Zhil.-kom. khoz. 11
no.3:24-25 Mr '61. (SUFA 14 3)

1. Glavnyy inzhener Leninskogo tramvaynogo depoz, g.Khar'kov
(for Shilin).
(Electric insulators and insulation)

GANEV, G.; KHADZHIEV, D.; KARAMALAKOV, L.; TSEKOVA, M.; SIRAKOV, A.;
ATANASOV, K.; CHANKOV, I.; TSOLOV, N.; VASILEVA, I.

Treatment of parkinsonism with a new preparation INHA-17. *Suvrem
med.*, Sofia no.4/5:35-44 '61.

1. Iz Nauchnoissledovatel'skiiia institut po nevrologiia i psikhiatriia.
(Direktor G. Ganev).

(ISONIAZID rel cpds) (PARALYSIS AGITANS ther)

TSEKOVA, M, d-r, mladshi nauchen sotrudnik

The needle therapy. Nauka i tekhn mladezh 14 no.11:12-13 '62.

1. NIINP.

GANEV, G.; KARAMALKOV, L.; KHADZHIEV, D.; TSEKOVA, M.; SIRAKOV, A.;
ATANASOV, K.; NANKOV, Iv.; TSOLOV, N.; VASILEVA, I.

Treatment of parkinsonism with a new combined preparation INHA-17
with Bellapan (Bellazon). Suvrem med., Sofia no.4/5:45-53 '61.

1. Iz Nauchnoissledovatel'skiiia institut po nevrologiia i psikhiatriia.
(Direktor G. Ganev.)

(ISONIAZID rel cpds)
(PARALYSIS AGITANS ther)
(BELLADONNA ther)

TSEKOVA, S.

The Seventh Congress of the Bulgarian Communist Party and the development of light industry. p. 1 Leka Promishlenost Vol. 7, No. 5, 1958. Sofia Bulgaria

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10
Oct. 58

TSEKOVA, S.

Toward new successes during 1957.

F. 1, (Lika Promishlenost) Vol. 6, no. 1, 1957, Sofia, Bulgaria

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

TSEKOVA, S.

TSEKOVA, S. Struggle for great economy, against squandering. p. 1.

Vol. 5, No. 10, 1956.

LEKA PROMISHLENOST.

TECHNOLOGY

Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 3, March 1957

TSEKOVA, S.

"Our Tasks During 1958."

p. 1 (Elektroenergiia, Vol. 7, No. 1, 1958, Sofia, Bulgaria)

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Johnson, J. "The Problem of the Development of the
SNA: Some Issues." Review, Vol. 2, No. 2, 1977.

SO: Monthly List of the East European Associations, (EAB), 10. Vol. 1, no. 10, Oct. 1955. Incl.

TSEKOVA, S.

What the annual departmental conferences indicated. p. 1.
LEKA PROMISHLENOST, Sofiya, Vol. 4, no. 2, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

TSEKOVA, St.

Results from the Annual Conference of the Branches Covered by the Ministry
of Light and Food Industry. Ieka Promishlenost (Light Industry), (2:1: Feb 55

TSEKOVA, ST.

Increase of the Productivity of Labor is Our Basic Task.
LEKA PROMISHLENOST (Light Industry) 4:1:April 55

TSEKOVA, Y.

Attending Radio Operator Courses. "RADIC" Ministry of Communication,
#7-8:18:Jul-Aug. 55

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8

APPROVED FOR RELEASE: 03/14/2001

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TSEKULINIA, A. [Cekulina, A.]

Achievements in electrification of the Latvian SSR rural economy.
In Russian. Vestis Latv ak no.7:179-182 '60. (EEAI 10:7)
(Latvia—Rural electrification)

TSEKULINA, A. A. Doc Agr Sci -- (diss) "Power-engineering ~~base~~ of systems
of electrified machines for dairy animal husbandry farms." Riga, 1959. 28 pp
(Latvian Agr Acad), 250 copies (KL, 49-59, 141)

-56-

621.311.1:63(474.3)

2487. Utilization of local sources of power for electrification of agriculture in the Latvian Soviet Republic. K. PLAUDS, A. TSEKULIYA, AND YU. MAZUR. *Latv. PIR. Zin. Akad. Vest.*, No. 7, 97-111 (1950) *In Russian.*

Plans for development of local power networks connected to future hydro-electric and also peat-burning power stations are outlined together with the possibilities and advantages of electrification of agriculture on a national scale. J. LUKASZEWICZ

64
b

ASAC-31A METALLURGICAL LITERATURE CLASSIFICATION

TSEKUN, N., kand.tekhn.nauk (g.Baku)

Plotting cartograms of potential corrosion areas. Zhil.-kov. khoz.
10 no.7:13-15 '60. (MIRA 13:10)
(Baku--Corrosion and anticorrosives) (Electric currents, Eddy)

KALIMAN, V. M., MURATA, V. G. and POKH, S. A.

"The Simultaneous action of Direct and Alternating Currents on the Corrosion of Metal in the Soil," Trudy Azerbaydzhan Ind. Inst., Energeticheskoy Sbornik, 1940, No. 1, 25, 5-10.

The corrosive effect of a. c. superposed on d.c. on Fe in the soil was very insignificant at sma ll p. ds. Exptl data, diagrams and tables are given.

TSEKUN, N. A.

FA 15/49T3

USSR/Academy of Sciences

Jul 48

"In the Azerbaydzhan Industrial Institute imeni
Azizbekov," N. A. Tsekun, Cand Tech Sci, $\frac{1}{2}$ p

"Elektrichestvo" No 7

Gives authors and titles of 16 papers read at above
Institute.

15/49T3

15/49T3

USSR/Electricity - Conferences

Dec 52

"Scientific Session of the Azerbaydzhan Industrial
Institute iment Azilbekov AZII," Cand Tech Sci, N. A.
Isekhun

"Elektrichestvo" No 12, p 86

The AZII Scientific Session reviewed sci-res work of
inst for 1951-1952 academic yr, with special emphasis
on problems of cooperation of inst's scientific work-
ers with production. The session, divided into seven
sections, heard 68 papers in all. Elec Eng Section
(Director - Prof Z. B. Yel'yashovich) heard papers on

242133

power-system problems and equipment, elec machines
and apparatus, production control equipment, and
problems related to petroleum industry.

242133

TSEKUN, N.A., kandidat tekhnicheskikh nauk.

Revising rules of protection for underground metal installations against corrosion. *Elektrichestvo* no.8:70-72 Ag '53. (MLBA 6:8)

1. Azerbaydzhanskiy industrial'nyy institut imeni Azizbekova.
(Electric lines--Underground)

*Natural Liquid & solid & gaseous; sources,
Properties & treatment*

TSEKUN, N. A.

✓ 331. PROTECTION FROM ACTION OF STRAY CURRENTS. Salan-Zade, M.M.
and Tsekun, N.A. (Energ. Byull. Minist. Neft. Prom. (Pwr Bull. Minist.
Oil, Moscow), July 1953, 13-18). The electrical protection against
corrosion of an oil pipe line, which was affected by stray currents from a
tramway, is described. (L).

8-12-54
APP

TSEKUN, H.A., kandidat tekhnicheskikh nauk.

Scientific conference of the Azerbaijan Industrial Institute. Elektrichestvo
no.10:91 0 '53.

(MLBA 6:10)

(Azerbaijan--Electric engineering) (Electric engineering--Azerbaijan)

1. TSEKUN, M. A. Eng.
2. USSR (600)
4. Electric Currents, Vagrant
7. Vagrant currents in heat conductors. elekt. sts. 2^o No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

SPIRIN, A.A., kandidat tekhnicheskikh nauk; TSEKUN, N.A., kandidat tekhnicheskikh nauk.

Protecting heating networks from external corrosion. *Zlekt.sta.* 24 no.
5:14-17 My '53. (MLRA 6:7)
(Heating from central stations) (Steel - Corrosion)

SPIRIN, Aleksey Andreyevich; KAL'MAN, V.S. [deceased]; SALAM-ZADE, H.M.;
TSEKUN, N.A.; MAGREYEV, V.F., professor, doktor tekhnicheskikh
nauk, redaktor; KADYRLI, A.M., tekhnicheskii redaktor

[Electrical study of pipeline and cable corrosion] Metodika
elektricheskikh issledovani korroziionnogo sostoiianiia tubo-
provodov i kabelei. Baku, Gos.nauchno-tekhn.izd-vo neft.i gorno-
toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1954. 178 p.

[Microfilm]

(MIRA 10:7)

(Electrolytic corrosion) (Cables) (Pipelines)

TSEKUN, M. M.

SPIRIN, Aleksey Andreyevich; TSEKUN, M. M.; SAHAM-ZADE, Makh-mud Mekhti ogy; AL'BITSKIY, B.P., professor, redaktor; UDALYY, A.M., redaktor.

[Electric protection from corrosion of underground metallic structures]
Elektricheskaya zashchita podzemnykh metallicheskh sooruzhenii ot
korrosii. Baku, Azneftizdat, 1954. 262 p. (MLBA 8:4)
(Electrolytic corrosion)

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APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756930002-8"

Tsekun, N. A.

Subject : USSR/Power AID P - 4016
Card 1/1 Pub. 26 - 5/31
Author : Tsekun, N. A., Kand. Tech. Sci.
Title : Increasing periods of safe operation of heat-distributing
underground pipes.
Periodical : Elek. sta., ²⁶ 11, 15-19, N 1955
Abstract : Corrosion causes and prevention in heat piping are
discussed. Electric heating of pipelines is explained and
recommended. Some suggestions on insulation are made.
Five diagrams. Five Russian sources, 1952-54.
Institution : None
Submitted : No date

TSEKUN, N.A.

Subject : USSR/Electricity

AID P - 2084

Card 1/1 Pub. 26 - 26/29

Author : Tsekun, N. A., Kand. of Tech. Sci.

Title : ~~Conference of the readers of the journal~~ Conference of the readers of the journal Elektricheskiye Stantsii in Baku. (Current Events)

Periodical: Elek. sta., 4, 56, Ap 1955

Abstract : The December 1954 conference in Baku was attended by 70 participants, and was devoted to the periodical Elektricheskiye Stantsii and the manner in which this journal treats problems connected with power. Some criticism of the insufficient information on heat and steam power plants and kolkhoz power stations was voiced. Some recommendations on organizing discussions of various problems were made.

Institution: None

Submitted : No date

Iskran, N.A.

18(5) **PHASE I BOOK EXPLOITATION** SOV/1882
Yevseyevyev sovshchaniye po korrozii i zashchite metallor.
GKh, Moscow, 1956

Teoriya i praktika protivokorozionnoy zashchity podzemnykh
sooruzheniy; teoriya sovshchaniya (Theory and application of
Anti-corrosion measures of Subterranean Installations); Trans-
actions of the 6th All-Union Conference on Corrosion and Pro-
tection of Metals, Moscow, 1956. 273 p. Errata slip
inserted. 3,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR, Institut fizicheskoy
khimii. Komissiya po bor'be s korrozionnyy metallor.

Editorial Board: I.M. Yerushov, Candidate of Technical Sciences;
A.P. Lamer, Candidate of Chemical Sciences; Yu.M. Mikheylovskiy,
Candidate of Chemical Sciences; I.V. Strizhevskiy, Candidate
of Technical Sciences; M.D. Tomashov, Professor, Doctor of
Chemical Sciences; and P.V. Zhigolev, Candidate of Chemical
Sciences.

Card 1/7

Belanetskiy, M.D., M.D. Tomashov, Professor, Doctor of
Chemical Sciences; M.D. of Publishing House: A.L. Benkivitskiy;
Tech Ed.: P.S. Kabanov.

PURPOSE: The book is intended for chemists, engineers, and
metallurgists concerned with the problem of metal corrosion
in underground installations.

CONTENTS: The book contains the papers read at the All-Union
Conference of the Committee on the Control of Corrosion of
the Academy of Sciences, USSR, held in May, 1956. The
following scientific and technical problems discussed at
the conference received particular attention: 1) theory
of metal corrosion underground (M.D. Tomashov and S.I.
Kabanov); 2) theory, calculation, and practical applica-
tion of cathodic protection of underground installations
(A.P. Lamer); 3) study of the anticorrosive properties
and the improved technology in manufacturing and applying
protective coatings to subterranean metallic installations
(L. Ya. Talerman, V.I. Zhukov, M.D. Dzhafarov, and V.I.
Artemov); 4) prevention of stray current corrosion (I.V.
Strizhevskiy, J.E. Tolyanovich, P.G. Doroshenko, and
M.Y. Gerdynskiy); 5) development of methods for determining
the corrosion activity of soils (Yu. M. Mikheylovskiy,
M.D. Tomashov, M.S. Trifonov, and V.V. Krasovskiy); 6) con-
struction of corrosion and protection of underground
installations (S.G. Vedenskiy and V.I. Artemov, V.I. Fritula,
and J.S. Popov). There are 141 references, 128 of which are
in Russian, 30 English, and 3 German.

Card 2/7

TABLE OF CONTENTS:
1. Theory of metal corrosion underground (M.D. Tomashov and S.I. Kabanov) 37
2. Theory, calculation, and practical application of cathodic protection of underground installations (A.P. Lamer) 61
3. Study of the anticorrosive properties and the improved technology in manufacturing and applying protective coatings to subterranean metallic installations (L. Ya. Talerman, V.I. Zhukov, M.D. Dzhafarov, and V.I. Artemov) 79
4. Prevention of stray current corrosion (I.V. Strizhevskiy, J.E. Tolyanovich, P.G. Doroshenko, and M.Y. Gerdynskiy) 81
5. Development of methods for determining the corrosion activity of soils (Yu. M. Mikheylovskiy, M.D. Tomashov, M.S. Trifonov, and V.V. Krasovskiy) 83
6. Construction of corrosion and protection of underground installations (S.G. Vedenskiy and V.I. Artemov, V.I. Fritula, and J.S. Popov) 85
7. There are 141 references, 128 of which are in Russian, 30 English, and 3 German.

1. Theory of metal corrosion underground (M.D. Tomashov and S.I. Kabanov)	37
2. Theory, calculation, and practical application of cathodic protection of underground installations (A.P. Lamer)	61
3. Study of the anticorrosive properties and the improved technology in manufacturing and applying protective coatings to subterranean metallic installations (L. Ya. Talerman, V.I. Zhukov, M.D. Dzhafarov, and V.I. Artemov)	79
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5. Development of methods for determining the corrosion activity of soils (Yu. M. Mikheylovskiy, M.D. Tomashov, M.S. Trifonov, and V.V. Krasovskiy)	83
6. Construction of corrosion and protection of underground installations (S.G. Vedenskiy and V.I. Artemov, V.I. Fritula, and J.S. Popov)	85
7. There are 141 references, 128 of which are in Russian, 30 English, and 3 German.	110
8. There are 141 references, 128 of which are in Russian, 30 English, and 3 German.	115

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CIA-RDP86-00513R001756930002-8"

AUTHOR: Tsekun, N. A. 90-18-3-1/5

TITLE: The Electrical Protection of Power Cables from Corrosion
(Elektricheskaya zashchita silovykh kabeley ot korrozii)

PERIODICAL: Energeticheskii byulleten', 1958, Nr 3, pp 1-5 (USSR)

ABSTRACT: The author discusses methods of protecting underground power cables from corrosion, rejects the method of using an outer steel casing and recommends the electrical method of creating a negative potential on the sheath of the cable. The permissible value of the current is dependent on that of the load carried by the cable (Formula (5)), since the protective current heats the casing and has a bad effect on the thermal working regime of the cables. The thermal resistance of the insulating layer, protective covering and soil are worked out for various cable load currents and temperatures of heating of the wire, as shown in table 1 and figure 1. A scheme of disruptive currents is proposed for the cable and the potential may be supplied either by drainage installations (in the stray current zones) or by cathode stations. A system using the latter method is described.

Card 1/2

The Electrical Protection of Power Cables from Corrosion 9C-58-3-1/9

There are 3 tables, 4 graphs, 1 circuit diagram and 1 Soviet references.

1. Electric cables---Corrosion prevention 2. Electricity
---Applications

Card 2/2

TSEKUN, N.A.

Establishing new rules for corrosion protection. Izv. vys. ucheb.
zav.; neft i gaz no.8:121-125 '58. (MIRA 11:10)

1. Azerbaydzhanskiy industrial'nyy institut im. M.Azizbekova.
(Corrosion and anticorrosives)

TSEKUN, N.A.

Centralizing control of operation of cathodic protection stations
on gas pipelines; a discussion. Gaz.prom. no.11:40-42 N '58.

(MIRA 11:11)

(Gas, Natural--Pipelines) (Remote control)

TSEKUN, N.A.; VEZIROV, A.Kh.

Some features of electrical protection of oil pipelines from corrosion under complex conditions. Azerb. neft. khoz. 39 no.1:42-44

Ja '60.

(MIRA 14:8)

(Corrosion and anticorrosives) (Petroleum--Pipelines)

L.08781-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB
ACC NR: AP6021377 SOURCE CODE: UR/0423/65/000/012/0022/0024

AUTHORS: Taekun, N. A.; Afonskiy, K. N.; Gasanly, R. M. 52

ORG: Azerbaydzhan Institute of Petroleum and Chemistry im. M. Azizbekov
(Azerbaydzhanskiy institut nefi i khimii)

TITLE: An automatic cathode station for protecting underground pipelines and cables from corrosion

SOURCE: Za tekhnicheskii progress, no. 12, 1965, 22-24, 39

TOPIC TAGS: cathode, earth current, electric relay, dc amplifier, electric motor, corrosion protection, potentiometer, electric transformer/ RP-5 electric relay, RD-09 electric motor

ABSTRACT: This paper describes one version of an automatic cathode station, developed with the aim of creating a single series of stations with a power of from 0.5 to 5.0 kW. The principal distinguishing feature of the series is the use as the controllable power elements of commercial three-phase induction motors with modified rotors, which are rotary transformers (see Fig. 1). A dc amplifier is used to amplify the control signals and increase the sensitivity. Depending upon the correspondence of the potential of the installation relative to ground to the specified value, the control unit connects an actuator, under the influence of which the power unit changes the operating conditions of the station. The presence of rotary transformers ensures

UDC: 624.11:620.193.7.620.197.5

Card 1/3